## Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Original) A method for controlling transmission latency in a communications system, wherein the communications system is subject to a noise signal having at least a first noise phase and a second noise phase, the method comprising:

determining a first bit rate for symbols transmitted during the first noise phase, and a second bit rate for symbols transmitted during the second noise phase, the first bit rate and the second bit rate being constrained such that a transmission latency does not exceed a predetermined maximum allowed transmission latency; and

transmitting symbols at the first bit rate during the first noise phase and at the second bit rate during the second noise phase.

- 2. (Original) A method accordingly to claim 1, further comprising communicating the predetermined maximum allowed transmission latency via a message to a receiver of the communications system.
- (Original) A method according to claim 2, the method further comprising:
   configuring, in accordance with the first bit rate, a first bit allocation table for
   symbols transmitted during the first noise phase; and

configuring, in accordance with the second bit rate, a second bit allocation table for symbols transmitted during the second noise phase.

4. (Original) An apparatus for controlling transmission latency in a communications system, wherein the communications system is subject to a noise signal having at least a first noise phase and a second noise phase, the apparatus comprising:

a constrained rate receiver for determining a first bit rate for symbols transmitted during the first noise phase, and a second bit rate for symbols transmitted during the second noise phase, the first bit rate and the second bit rate being constrained such that a transmission latency does not exceed a predetermined maximum allowed transmission latency; and

a constrained rate transmitter for transmitting symbols at the first bit rate during the first noise phase and at the second bit rate during the second noise phase.

- 5. (Original) An apparatus according to claim 4, wherein the constrained rate transmitter further comprising a latency control transmitter for communicating the predetermined maximum allowed transmission latency via a message to the constrained rate receiver.
- 6. (Original) An apparatus according to claim 5, wherein the constrained rate receiver further comprises:

a first bit allocation table controller for configuring, in accordance with the first bit rate, a first bit allocation table for symbols transmitted during the first noise phase; and a second bit allocation table controller for configuring, in accordance with the second bit rate, a second bit allocation table for symbols transmitted during the second noise phase.

7. (Original) A constrained rate receiver for controlling transmission latency in a communications system, wherein the communications system is subject to a noise signal having at least a first noise phase and a second noise phase, the receiver being adapted to determining a first bit rate for symbols transmitted during the first noise phase, and a second bit rate for symbols transmitted during the second noise phase, the first bit rate and second bit rate being constrained such that a transmission latency does not exceed a predetermined maximum allowed transmission latency.

## 8-9. (Cancelled)

- 10. (Original) A constrained rate receiver according to claim 7, capable of receiving a message communicating the predetermined maximum allowed transmission latency.
- 11. (Original) A constrained rate receiver according to claim 10, further comprising:
  a first bit allocation table controller for configuring, in accordance with the first
  bit rate, a first bit allocation table for symbols transmitted during the first noise phase;
  and

a second bit allocation table controller for configuring, in accordance with the second bit rate, a second bit allocation table for symbols transmitted during the second noise phase.

12. (Currently Amended) A constrained rate receiver according to claim 11, wherein the first noise phase corresponds to a first signal-to-noise ratio, and the second noise phase corresponds to a second signal-to-noise ratio, the second signal-to-noise ratio being higher than the first signal-to-noise ratio further comprising:

a second bit rate controller for determining the second bit rate based on the second signal-to-noise ratio.

13. (Currently Amended) A constrained rate receiver according to claim 12, further comprising:

a first bit rate controller for determining the first bit rate based on the second bit rate and the pre-determined maximum allowed transmission latency.

14. (Previously Presented) A constrained rate receiver according to claim 13, wherein the first bit rate controller comprises a controller for determining the first bit rate in accordance with the following equation:

$$R_1 = -R_2 * \frac{S_2}{S_1} * \frac{latency * C + SymTime * S_1}{latency * C - SymTime * S_2}$$

where  $R_1$  is the first bit rate,  $R_2$  is the second bit rate, latency is the predetermined maximum allowed transmission latency, and SymTime is a discrete multi-tone symbol

duration, for  $S_2$  symbols of the second noise phase transmitted during a number C of noise clock cycles and  $S_1$  symbols of the first noise phase transmitted during the number C of noise clock cycles.

- 15. (Original) A constrained rate receiver according to claim 14, operating in a communications system which is an adaptive rate communications system.
- 16. (Currently Amended) A constrained rate receiver according to claim 15, wherein the communications system is an asymmetric digital subscriber line communications system.

17-20. (Cancelled)